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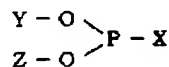
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C07C 47/02**B01J 31/22****C07C 45/50****// C07B 61/00**(21) Application number: **08081400**(22) Date of filing: **03.04.96**(71) Applicant: **MITSUBISHI CHEM CORP**(72) Inventor: **URATA HISAO
WADA YASUHIRO**(54) **PRODUCTION OF ALDEHYDES**

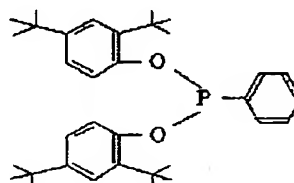
(57) Abstract:

PROBLEM TO BE SOLVED: To enable the suppression of side reactions and produce aldehydes in high selectivity, etc., for straight-chain isomers by carrying out a hydroformylating reaction of an olefinic compound in the presence of a group VIII metal using a phosphonite compound having a specific structure as a ligand.

SOLUTION: (B) An olefinic compound is reacted with carbon monoxide and hydrogen in the presence of (A) a catalyst containing a group VIII metal (especially preferably rhodium) and an acyclic phosphonite compound of formula I [X, Y and Z are each a (substituted)hydrocarbon] to afford the corresponding aldehyde. The phosphonite compound is used in an amount selected from the range of preferably 0.1-200mol in the component A. For example, a compound of formula II is cited as the compound of formula I.



I



II

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